

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-11. (canceled).

D 12. (new) A hearing aid for improving the hearing ability of a user, comprising:

an array of microphones, each producing a respective electrical output signal, each of the microphones in the array being an omnidirectional microphone;

means for deriving two array output signals from the microphone output signals, so that each of the microphone output signals is used in deriving at least one of the two array output signals; and

two transmissions paths, corresponding respectively to a left ear and a right ear of the user, each of the two transmission paths carrying a respective one of the two array output signals;

wherein the hearing aid is arranged to have two different main sensitivity directions running at an angle with respect to a main axis of the array, each of the main sensitivity directions being associated to a respective one of the array

output signals, each of the array output signals being fed along its own one of the two transmission paths.

13. (new) The hearing aid according to claim 12, wherein at least part of the array is mounted on a front of a pair of spectacles.

D 14. (new) The hearing aid according to claim 12, wherein at least part of the array is mounted on an arm of a pair of spectacles.

15. (new) The hearing aid according to claim 14, wherein each said arm of the spectacles is provided with a subarray of the microphones, the output signals from said subarrays being fed to the respective transmission paths.

16. (new) The hearing aid according to claim 12, wherein the means for deriving the array output signals comprises a summing device, producing as an output one of the array output signals, and receiving as inputs the microphone output signals, each of the microphone output signals being received via a corresponding weighting factor device.

17. (new) The hearing aid according to claim 12, wherein the means for deriving the array output signals comprises a series circuit of weighting factor device and summing device pairs;

wherein in each said pair, the summing device receives as a first input an output of the corresponding weighting factor

device, and receives as a second input a respective one of the  
microphone output signals;

D      in each but a first of the pairs an input of the weighting factor device is provided by an output of the preceding summing device in the series circuit, and in the first of the pairs the input of the weighting factor device is provided by the microphone output signal of an outermost one of the microphones; and

an output of the summing device of a last of the series circuit pairs provides one of the array output signals.

18. (new) The hearing aid according to claim 17, wherein the array output signal is derived via a further weighting factor device.

19. (new) The hearing aid according to claim 16, wherein the weighting factor device comprises a delay device.

20. (new) The hearing aid according to claim 19, wherein the weighting factor device comprises an amplitude-adjustment device.

21. (new) The hearing aid according to claim 16, wherein the weighting factor device comprises a phase-adjustment device.

22. (new) The hearing aid according to claim 21, wherein the weighting factor device further comprises an amplitude-adjustment device.

23. (new) The hearing aid according to claim 17,  
wherein the weighting factor device comprises a delay device.

D 24. (new) The hearing aid according to claim 18,  
wherein the weighting factor device comprises a delay device.

25. (new) The hearing aid according to claim 17,  
wherein the weighting factor device comprises a phase-adjustment  
device.

26. (new) The hearing aid according to claim 18,  
wherein the weighting factor device comprises a phase-adjustment  
device.